

Montana Girls STEM Collaborative



Building the capacity of STEM advocates to engage and inspire young people

Montana Girls STEM Collaborative

- State chapter of the **National Girls Collaborative Project**
- NGCP launched in 2004 with **funding from NSF; Montana Girls STEM launched in 2012**
- **Volunteer board** represents industry, government, education and non-profits
- We work to **strengthen the capacity** of existing projects
- **We collaborate** to create tipping point for gender equity in STEM



MONTANA NSF
EPSCoR



Academic Technology
& Outreach

UNIVERSITY OF MONTANA
spectrUM



Why STEM?



Why girls?





Montana challenges and opportunities

Board members

LEADERS

Jessie Herbert, spectrUM
Discovery Area, Missoula

Suzi Taylor, Montana
State University,
Bozeman

NOTABLE CHAMPIONS

Lisa Bullock,
First Lady of Montana

Waded Cruzado,
president, Montana State
University-Bozeman

Nancy Schweitzer, former
First Lady of Montana

- Annie Beaver, D.A. Davidson (Clyde Park)
- Dan Carter, ExxonMobil (Billings)
- Wendy Fechter, STARBASE (Great Falls)
- Allyn Jorgensen, CTA Architects (Bozeman)
- Jenny Lind, University of Montana
- Jan Lombardi, JML Consulting (Helena)
- Sandi Curriero Luckey, Montana Nurses Association (Helena)
- Michael Munson, Salish Kootenai College (Pablo)
- Martha Peters, Montana State University
- Holly Truitt, University of Montana
- Sundi West, Division of Military Affairs (Helena)
- Wendy Wigert, Montana Conservation Corps (Bozeman)
- Sara Young, Montana INBRE (ret.) (Billings)

Some of our partners



Montana Natural History Center
Connecting People with Nature

explorationWorks!
Montana's Science Center in Helena

NASTD
National Association of State Technology Directors
Technology Professionals Serving State Government

STARBASE
DoD
A Department of Defense Youth Program

MSU BILLINGS

Afterschool Alliance

Montana Fish, Wildlife & Parks



Montana Council of Teachers of Mathematics

WEST REGION
Transportation
Workforce Center
WRTWC.org

GREAT FALLS COLLEGE
MONTANA STATE UNIVERSITY

girl scouts
of montana
and wyoming

WOMEN'S FOUNDATION OF MONTANA
of the Montana Community Foundation

MONTANA OUTDOOR SCIENCE SCHOOL



MONTANA
University System
WATER CENTER

A2Z

STAFFING SOLUTIONS



BlueCross BlueShield of Montana

BOEING

ExxonMobil

JML Strategy

MONTANA INSTITUTE OF ECOSYSTEMS

EPSCOR

MONTANA STATE UNIVERSITY | EXTENDED UNIVERSITY

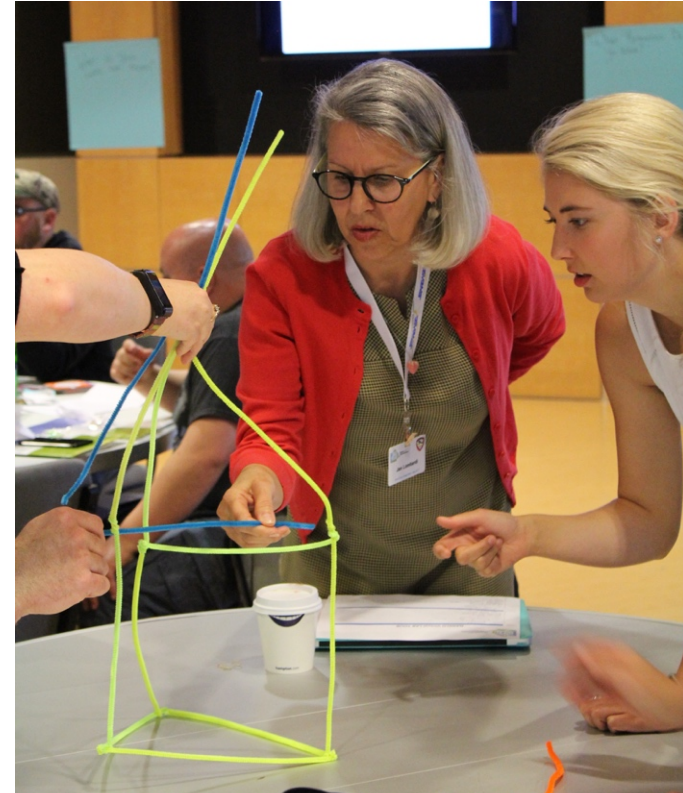
NORTHROP GRUMMAN

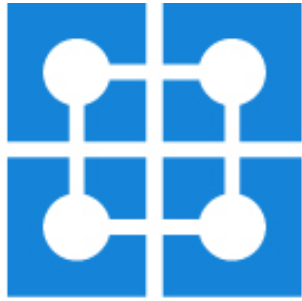
NorthWestern Energy
Delivering a Bright Future

xerox

Activities

- Host **professional development meetings** to share **research, professional development and exemplary practices**
- Offer **mini-grants** to support girl-serving programs
- Bring **national resources and STEM programs** to Montana
- Provide infrastructure to **catalyze collaborations**
 - **National:** Content-rich project Website, National Program Directory (The Connector), national e-newsletters, Webinars
 - **State:** Conferences, workshops, presentations; E-news, social media and local resources





THE
CONNECTORY
curiosity meets opportunity



techbridge

Inspire a girl to change the world



SciGirls

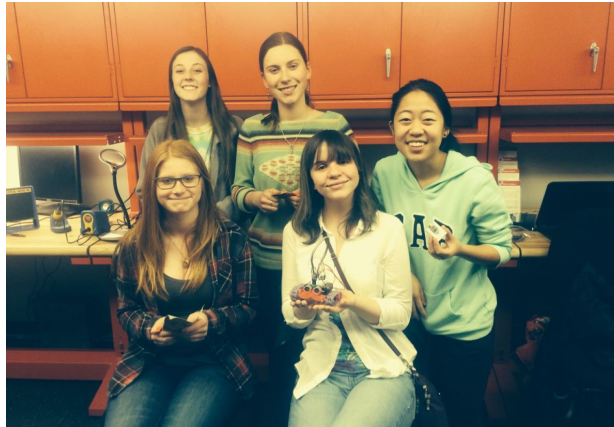
The Big Idea

To change how millions of girls
(ages 8-13) think about STEM



Success Stories

- Forums in Missoula (2012), Billings (2013), Helena (2014), Bozeman (2016), and Great Falls (2017) have helped link hundreds of adults with the goal of forming STEM collaborations.
- Two mini-grant cycles supported girl-serving programs in robotics, engineering, astronomy, gardening, outdoor ed and video game development
- AmeriCorps VISTA member hired with support of Montana Campus Compact and Montana Women's Foundation: outreach at tribal college libraries; training for youth mentors; new program development in MSU Family/Graduate Housing
- Brought national resources to Montana: Cornell Lab's BirdSleuth, Techbridge Role Models Matter, NASA Girls STEAM Ahead, Science Action Club, CryptoClub



From the Academy Award Nominated Producers of EVEREST and THE LIVING SEA

MACGILLIVRAY FREEMAN'S

DREAM BIG



A HEARTFELT STORY OF HUMAN INGENUITY

In Partnership with American Society of Civil Engineers, Presented by Bechtel Corporation

ENGINEERING OUR WORLD

MACGILLIVRAY
FREEMAN
PRESENTS

ASCE AMERICAN SOCIETY
OF CIVIL ENGINEERS



Partnership with Bozeman Film Society



STEM SUMMIT

08.08.17 • BOZEMAN

**Co-convenor
Montana Afterschool
Alliance STEM Summit**



Science Action Club

Afterschool citizen science program from
California Academy of Sciences / National Girls Collaborative Project

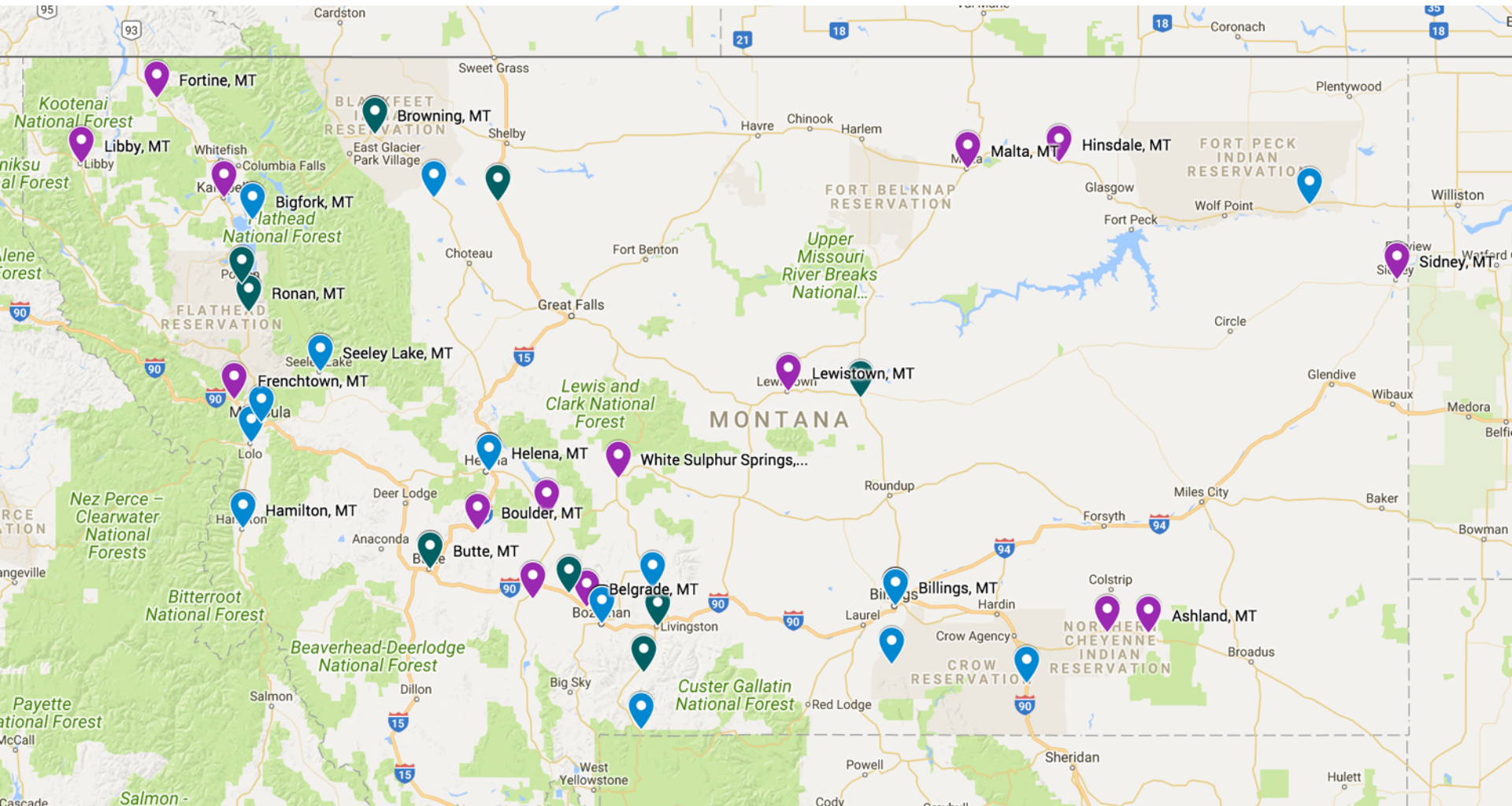


Science Action Club

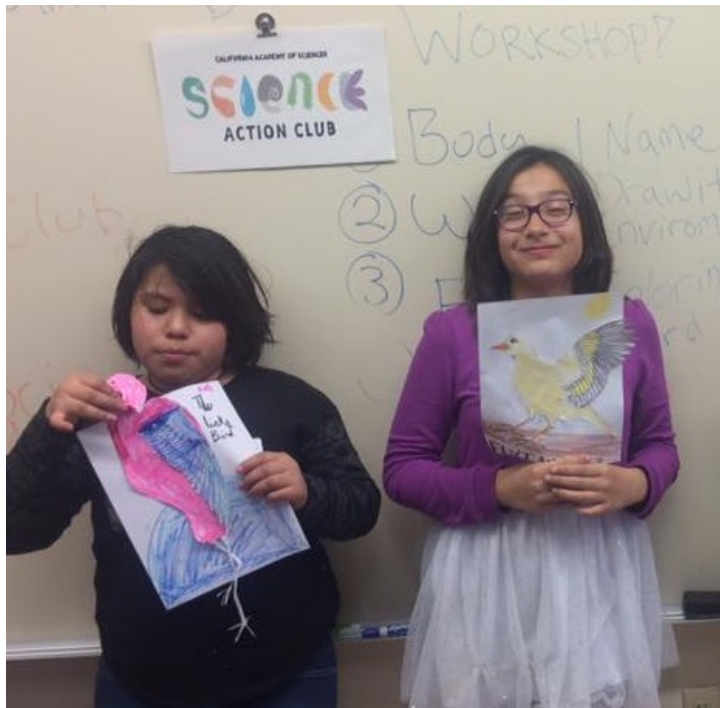
- Brought more than \$60,000 of high-quality STEM resources and educator professional development to 41 Montana communities; most of them small towns of under 2,500
- More than 50 educators received STEM PD, and approximately 500 youth have participated
- Additional support from Women's Foundation of Montana and MSU Department of Chemistry and Biochemistry



Science Action Club Sites









What's next for Girls STEM?



What's next for Girls STEM?



- Small Town STEM
- Photographers for STEM
- Programs for youth with disabilities
- Mentors for students in very rural areas
- STEM kits and training for informal science educators
- Directories/databases of programs and partners
- Industry collaborations
- More mini-grants
- Improve our reach to youth typically under-represented in STEM



Montana *Girls*
STEM Collaborative



MontanaGirlsSTEM



MTGirlsSTEM



[Bit.ly/mgsc-newsletter](https://bit.ly/mgsc-newsletter)

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